









ILLUSTRATION AND DESCRIPTION  
OF  
POWER  
TRANSMISSION MACHINERY

MANUFACTURED BY  
HOLYOKE MACHINE CO.  
WORCESTER, MASS.

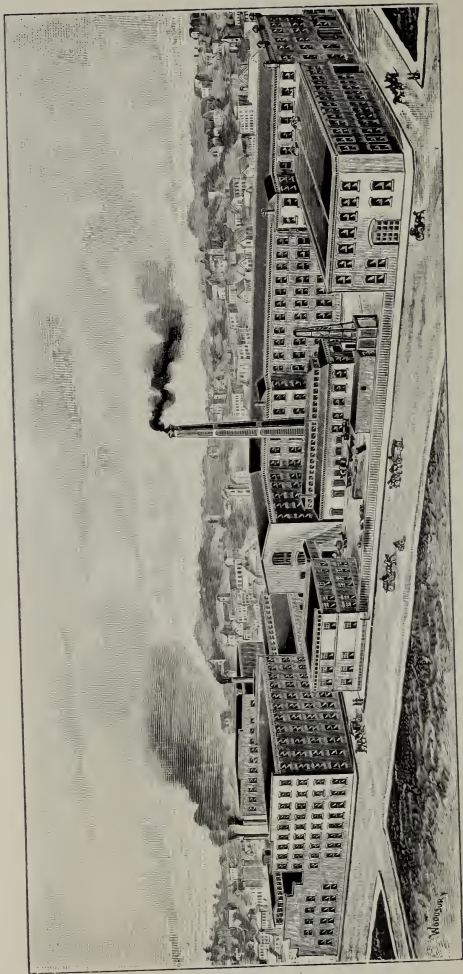
U. S. A.

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Long Distance Telephone.

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1901



HOLYOKE MACHINE CO., WORCESTER, MASS.

## INTRODUCTION.

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We present this book to our customers and to buyers, asking a careful perusal of its pages, that they may know what we are manufacturing in this department of our business.

We make a specialty of shafting, couplings, hangers, pulleys, etc., and can offer as low prices as are consistent with good work. We fill small orders at reasonable prices, and to insure prompt delivery we keep constantly on hand a large stock of finished work.

Mill owners and engineers desiring the best work will receive our proposals before closing contracts.

We shall be pleased to furnish any information in our power, and will faithfully execute all orders intrusted to us.

## TURNED SHAFTING.



All shafting furnished by us is turned true to our regular sizes, which are in sixteenths and are standard.

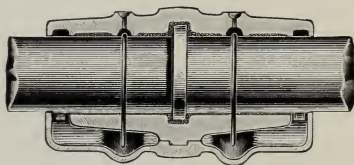
We carry a large stock of finished shafting and can ship lengths not exceeding twenty-four feet, at short notice.

Sketches of shafting should always be sent with the order and the exact diameter should be given. For sizes not standard, an accurate wire gauge should be sent.

We make a specialty of Forged Iron and Steel Shafts.



## RING OILING BEARINGS.



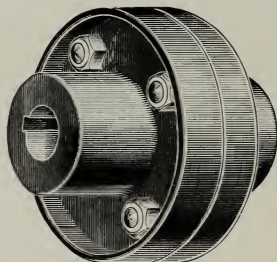
All bearings illustrated in this catalogue are ring oiling.

Our system of concealed collars and recessed bearings as illustrated above, can be applied to either headshafts or countershafts, and wherever used has given entire satisfaction.

Where these collars are to be used, their exact location on the shaft must be given.

With our ring oiling bearings no outside collars should be used.

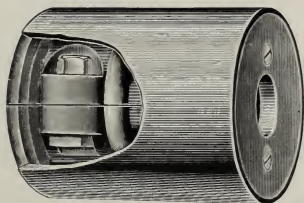
## FLANGE COUPLINGS.



These couplings are nicely finished and are provided with turned bolts and reamed holes. They are faced after being fitted to the shafts and will run perfectly true.

We carry them in stock keyseated and ready for immediate shipment.

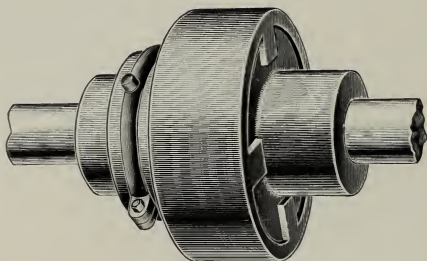
## COMPRESSION COUPLINGS.



These couplings are especially adapted to lines of light shafting where frequent changes of pulleys are necessary. They are fitted with bolts and keys, and the outside shell is turned true.

We carry them in stock keyseated and ready for immediate shipment.

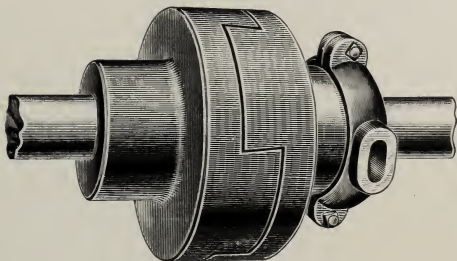
## SLIDING CLUTCH COUPLINGS.



These couplings are suitable for the heaviest class of work and when required for occasional use only, may answer in place of a more expensive clutch.

The jaws are planed true and the entire outside surface is finished. The two hubs are keyed to the shafts and the jaws, when connected, are enclosed by the sleeve which slides on one of the hubs and turns with it.

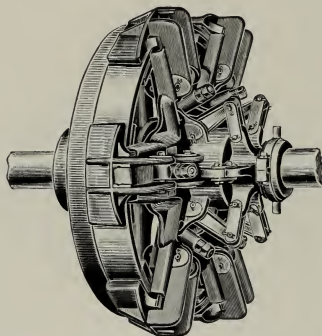
## JAW CLUTCH COUPLINGS.



We make these couplings to meet the demand for a less expensive clutch than our sliding clutch coupling.

The jaws are planed true and the entire outside surface is finished. The short hub is keyed to one shaft, and the long hub slides on a feather set in the other shaft.

## ECLIPSE FRICTION COUPLINGS.

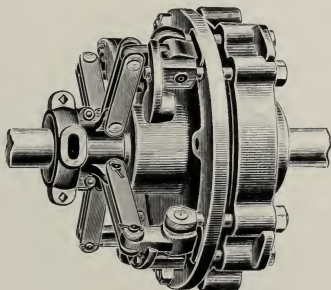


These couplings have met the most severe requirements. The method of operating them combines the advantages of a smooth and steady accelerating start, with a positive grip.

The hubs of the friction ring and of the clutch are firmly keyed to the shafts. The mechanism when properly adjusted will not slip.

These couplings are made with four or six arms according to the amount of power to be transmitted, and can be made split if desired.

## WORRALL FRICTION COUPLINGS.

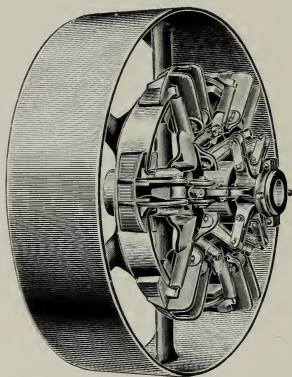


These couplings can be applied to main lines of shafting, countershafts, and to all classes of machinery.

They are operated with the engine or wheels running at full speed, and will gradually start or stop any connected shafting and machinery without sudden strain upon belts or gears.

Each part of the friction is keyed solid to the shaft upon which it runs. It automatically centers and adjusts itself for wear.

## FRICTION PULLEYS.

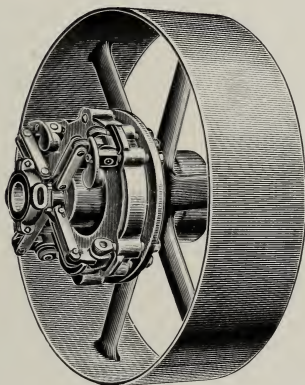


The above cut shows an Eclipse Coupling applied to a loose pulley, the friction ring being cast to the arms of the pulley.

We make these pulleys for light and heavy work, and furnish them with bronze bushings and grease cups. They can be made split if desired.

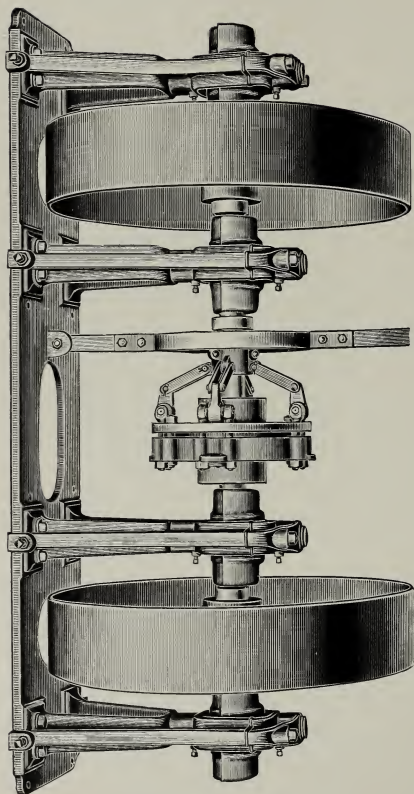


## FRICTION PULLEYS.



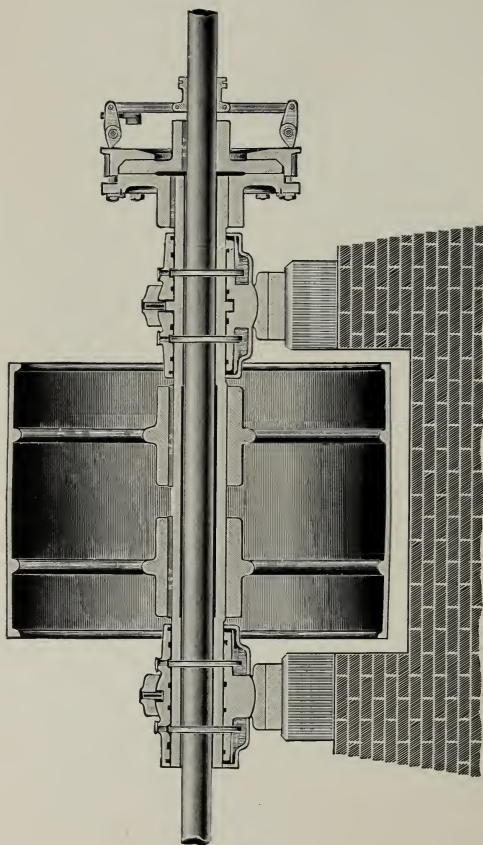
The above cut shows a Worrall Coupling applied to a loose pulley, the hub of the pulley being keyed to the hub of the coupling which is lengthened for that purpose.

We make these pulleys for light and heavy work, and furnish them with self oiling bronze bushings.



The illustration on preceding page shows a countershaft with friction coupling and hangers mounted on a cast iron plate. This makes a very compact arrangement, and as the hangers have both vertical and horizontal adjustment an easy and quick alignment of the shafts is secured.

This device is especially desirable for driving generators or any machinery where the most substantial arrangement is required.



The illustration on preceding page shows method of connecting to, or disconnecting from, a large driving or receiving pulley by means of a quill and a friction coupling.

The quill through which the shaft runs has an inside diameter somewhat larger than the line shaft, and is supported by boxes entirely independent of those belonging to the shaft.

The pulley and one part of the friction coupling are keyed to the quill. The other part of the coupling is keyed to the shaft.

This we recommend as a most satisfactory and reliable arrangement for heavy powers.

## CAST IRON PULLEYS.

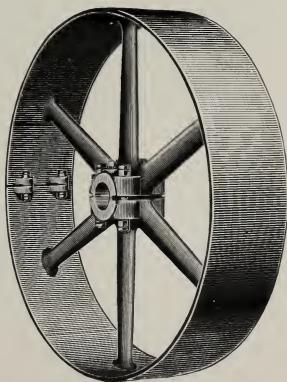
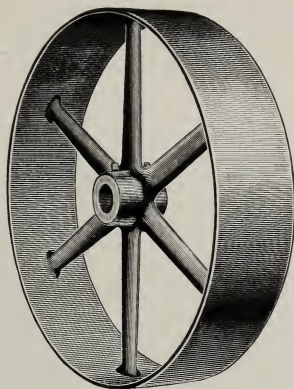
We are prepared to furnish pulleys of any diameter not exceeding sixteen feet, of any face and weight.

We make our pulleys sufficiently heavy for double belts, and all pulleys not exceeding 48 inches in diameter are machine moulded.

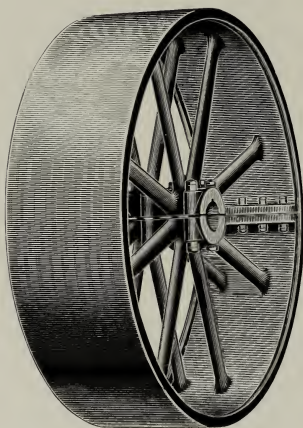
We can furnish promptly Whole Pulleys, Split Pulleys, Clamp Hub Pulleys, Tight and Loose Pulleys, Flange Pulleys, Dynamo Pulleys and Balance Wheels.

In ordering pulleys, give exact size, state whether they are to have straight or crown face, and give the exact diameter of the bore required. An accurate wire gauge should be sent for sizes not standard.

Pulleys which are to be keyed to shafts are splined our regular size unless otherwise ordered.



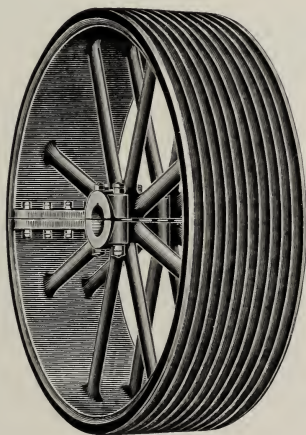
## DOUBLE ARM PULLEYS.



We are prepared to furnish heavy driving pulleys not exceeding sixteen feet in diameter, and with two sets of arms when required. They can be made with whole, split, or clamp hubs as desired.

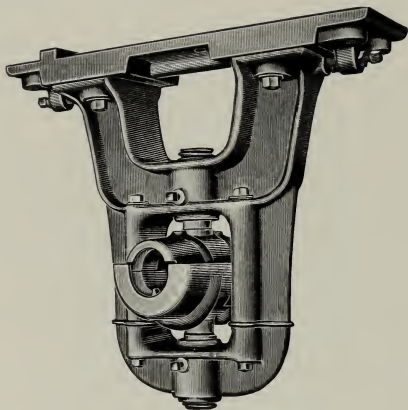


## GROOVED PULLEYS.



We are prepared to furnish these pulleys, not exceeding sixteen feet in diameter with Engineer's Standard Grooves, and for any number of ropes required. They can be made with whole, split, or clamp hubs as desired.

## HEAD SHAFT HANGERS.

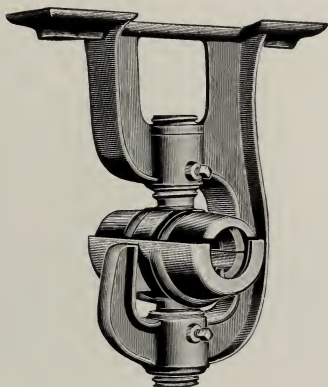


These hangers are designed for supporting head shafts and are provided with ring oiling, adjustable, ball and socket bearings.

They can be used with or without base plates as desired.

We carry them in stock ready for immediate shipment.

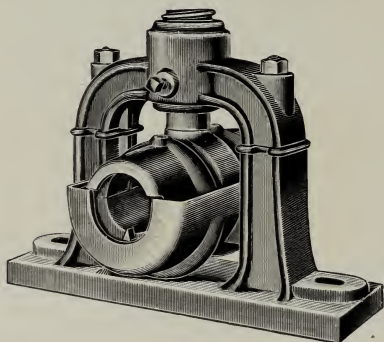
## LINE HANGERS.



These hangers are designed for supporting line shafting and are provided with ring oiling, adjustable, ball and socket bearings.

We carry them in stock ready for immediate shipment.

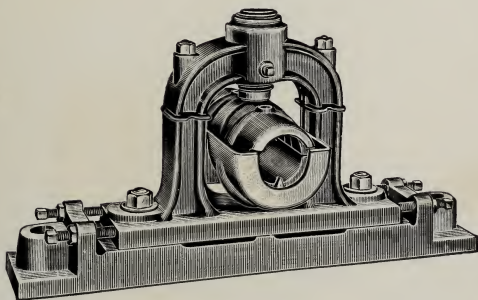
## PILLOW BLOCKS.



These pillow blocks are provided with ring oiling, ball and socket bearings, and are intended for use in places where bearings of heavier design are not required.

We carry them in stock ready for immediate shipment.

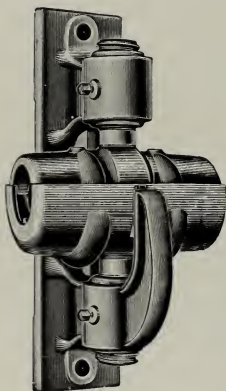
## BASE PLATES.



These base plates are designed for use where only horizontal adjustment is required.

We can furnish them for any of our pillow blocks and with wedges for vertical adjustment, if desired.

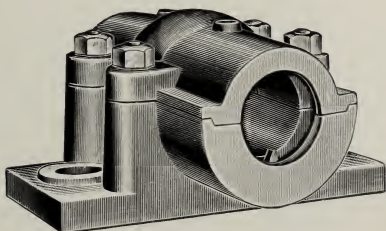
## POST HANGERS.



These hangers are designed for supporting line shafting, and are provided with ring oiling, adjustable, ball and socket bearings.

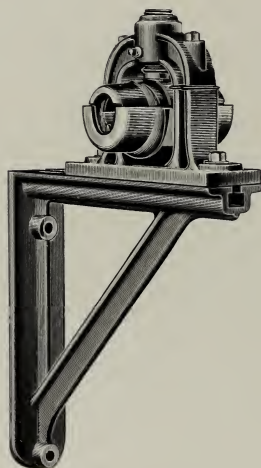
We carry them in stock ready for immediate shipment.

## RIGID PILLOW BLOCKS.



These pillow blocks are ring oiling and are intended for use in places where a rigid support is necessary, but where bearings of heavier design are not required.

## WALL BRACKETS.

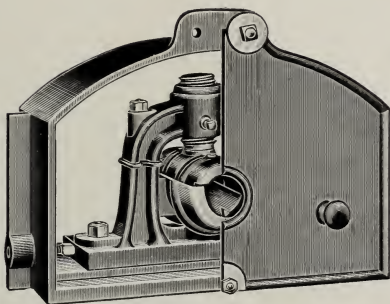


These wall brackets are designed for use where only horizontal adjustment is required.

We can furnish them with wall plates for vertical adjustment if desired.



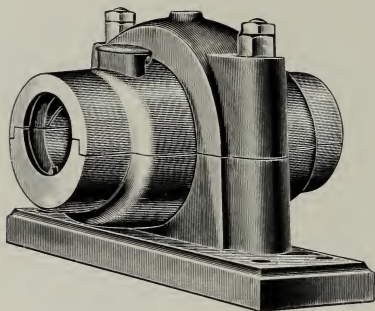
## WALL FRAMES.



These wall frames with swinging doors permit of a coupling or pulley being placed close to them.

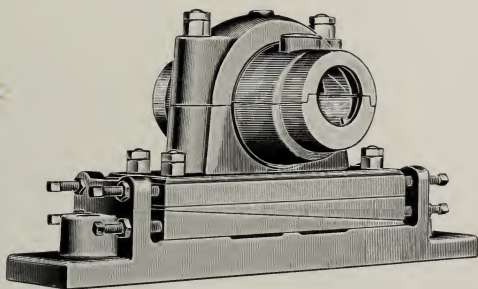
We can furnish them for any of our pillow blocks and for walls of any thickness.

## PILLOW BLOCKS.



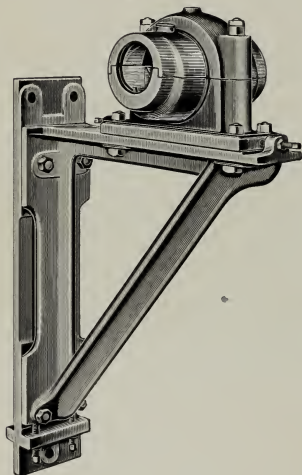
These pillow blocks are provided with ring oiling, ball and socket bearings, and are designed for use in connection with head shafts, quills, or wherever a heavy bearing is required.

## BASE PLATES.



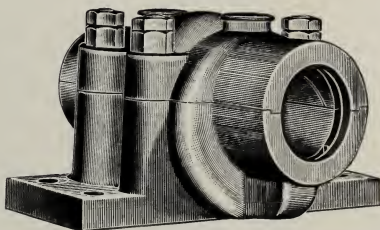
These base plates are designed for use where both vertical and horizontal adjustment are required. We can furnish them with any of our pillow blocks and without wedges, if desired.

## WALL BRACKETS.



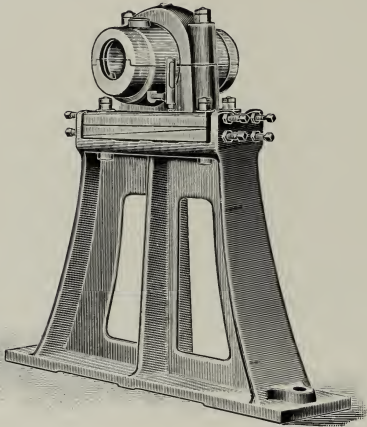
These wall brackets are designed for heavy work and have both vertical and horizontal adjustment. We can furnish them without wall plates if desired.

## RIGID PILLOW BLOCKS.



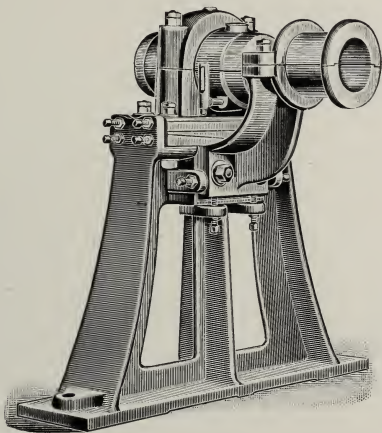
These pillow blocks are ring oiling and are designed for use in connection with gears or wherever a heavy rigid bearing is required.

## FLOOR STANDS.



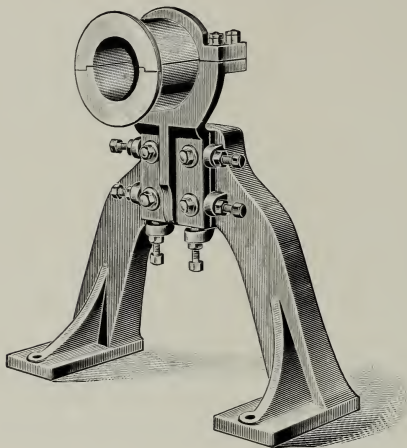
These floor stands are designed for heavy work and can be used with any of our pillow blocks. The pillow blocks have horizontal adjustment, also vertical adjustment by means of wedges.

## FLOOR STANDS.



These floor stands are provided with loose pulley brackets which can be placed on both sides if desired. Both vertical and horizontal adjustment are obtained.

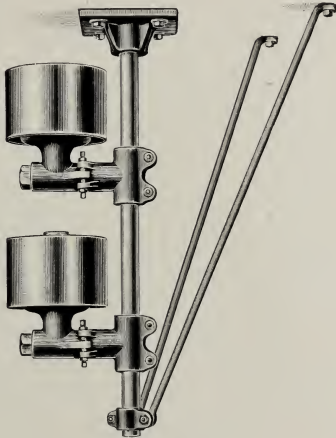
## LOOSE PULLEY STANDS.



These stands are designed for supporting loose pulleys. The sleeve through which the shaft runs has an inside diameter somewhat larger than the line shaft. The loose pulley bracket has both vertical and horizontal adjustment.



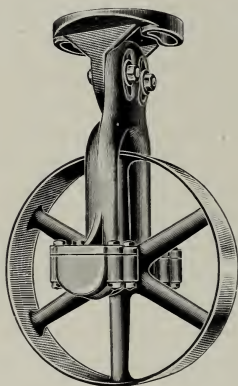
## MULE PULLEY STANDS.



These stands are adjustable and the pulleys are provided with self oiling bronze bushings.

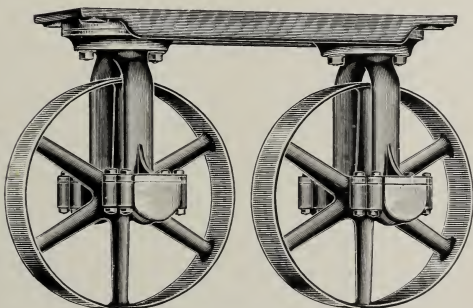
The line shafts may be at any angle with each other and need not be in the same plane. The line pulleys may be of different diameters.

## SINGLE GUIDE PULLEYS.



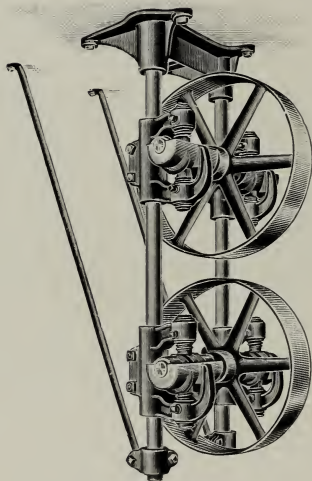
These guide pulleys are designed for driving spinning frames. They are adjustable and are provided with ring oiling bearings.

## DOUBLE GUIDE PULLEYS.



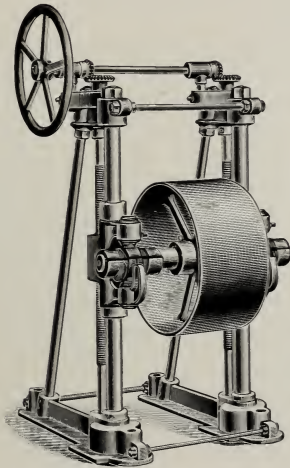
These guide pulleys are designed for driving two spinning frames placed at right angles to the line shafting. They are provided with ring oiling bearings.

## BINDER FRAMES.



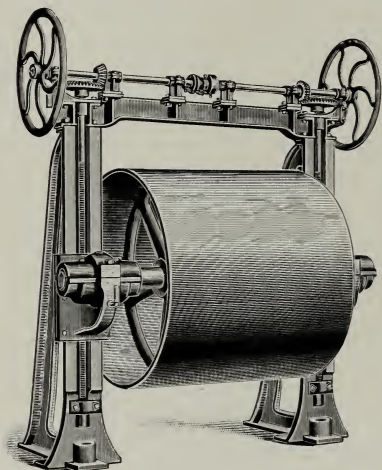
These binder frames are designed for light work. The hangers are adjustable and have ring oiling, ball and socket bearings,

## BELT TIGHTENERS.



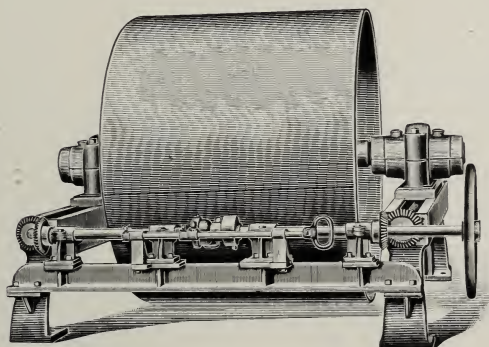
We make a large variety of tighteners for light or heavy work. They are adjustable and have ring oiling, ball and socket bearings.

## BELT TIGHTENERS.



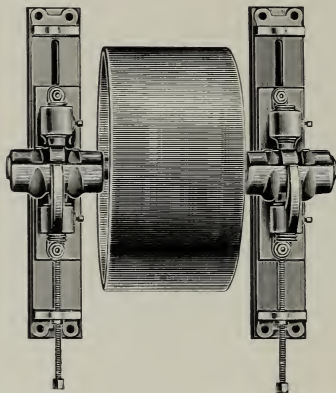
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## BELT TIGHTENERS.



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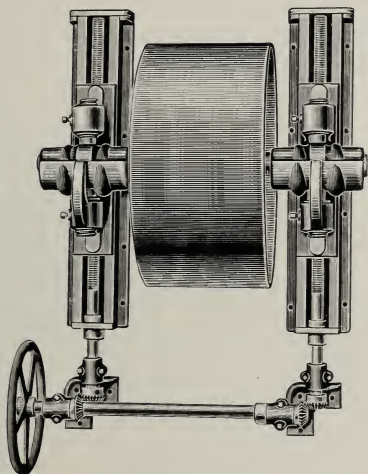
## BELT TIGHTENERS.



These tighteners are designed to be bolted to vertical posts. They are adjustable and have ring oiling, ball and socket bearings.

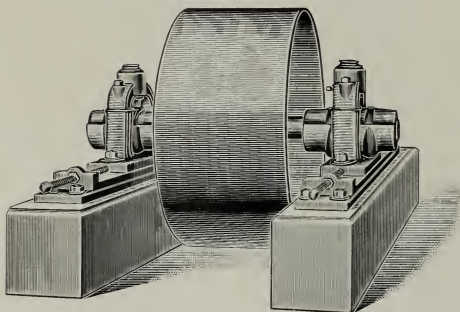


## BELT TIGHTENERS.



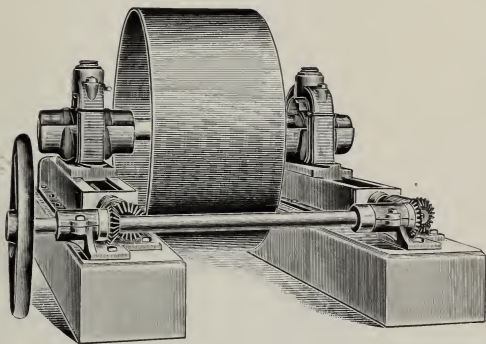
These tighteners are designed to be bolted to vertical posts. They are adjustable and have ring oiling, ball and socket bearings.

## BELT TIGHTENERS.



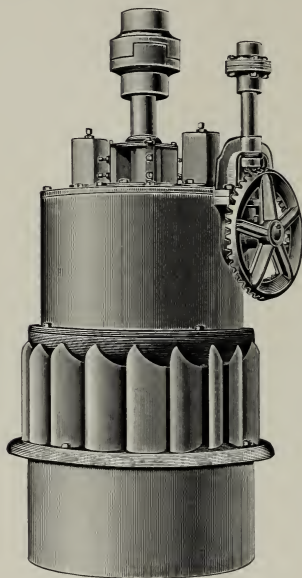
These tighteners are designed to be bolted to horizontal beams. They are adjustable and have ring oiling, ball and socket bearings.

## BELT TIGHTENERS.



These tighteners are designed to be bolted to horizontal beams. They are adjustable and have ring oiling, ball and socket bearings.

## THE HERCULES.



Simple in construction. Great power for its size. High efficiency from full to half water.





